

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: April 23, 1996
Date Received: April 18, 1996
Project: Metro Self Monitor, PO #M52949
Date Samples Extracted: April 19, 1996
Date Extracts Analyzed: April 22, 1996

**RESULTS FROM THE ANALYSIS OF THE PROCESS WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, AND ZINC
USING METHOD 6010**

Samples Processed Using Method 3005A
Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M52949	0.32	0.24	0.15	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: April 23, 1996

Date Received: April 18, 1996

Project: Metro Self Monitor, PO #M52949

**QUALITY ASSURANCE RESULTS
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)
Samples Processed Using Method 3005A**

Laboratory Code: 68131 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.32	0.32	0	0-20
Copper	mg/L (ppm)	0.24	0.22	9a	0-20
Nickel	mg/L (ppm)	0.15	0.14	7a	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 68131 (Matrix Spike)

Analyte:	Reporting Units	Spike Level	Sample Result	% Recovery MS MSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	0.32	92	96	80-120	4
Copper	mg/L (ppm)	5	0.24	92	98	80-120	6
Nickel	mg/L (ppm)	10	0.15	93	98	80-120	5
Zinc	mg/L (ppm)	5	<0.05	96	100	80-120	4

Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recovery MS MSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	100	99	80-120	1
Copper	mg/L (ppm)	5	101	98	80-120	3
Nickel	mg/L (ppm)	10	101	101	80-120	0
Zinc	mg/L (ppm)	5	101	101	80-120	0

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

a - The analyte was detected at a level less than five times the detection limit. The RPD results may not provide reliable information on the variability of the analysis.

KNJ 11 +
4.18.96
10:37

KNJ 11 +
4.18.96
10:37

Company ALASKAN Copper Works Contact GERALD Thompson
Address 628 Hammond St
City, State, Zip Seattle WA 98134
Phone # (206) 382-5379 Date 6-18-96

SITE NO.	PROJECT NAME	PURCHASE ORDER #
7238	METRO Self monitor	m 52949

SAMPLERS (signature)	PROJECT LOCATION
<i>Proctor Walker</i>	3200 6 th Ave S.

REMARKS	SAMPLE DISPOSAL INFORMATION	
	<input type="checkbox"/>	Dispose after 30 days
	<input checked="" type="checkbox"/>	Return Samples
	<input type="checkbox"/>	Call for Instructions

[illegible]

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: <i>Jaroslav Kulbel</i>	JAROSLAV KULBEL	Alaskan Copper Works	4-18-96	10:30
Received by: <i>Cathy Downing</i>	Cathy Downing	FBI	4-18-96	10:30
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044

April 23, 1996

Gerald Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on April 18, 1996 from your Metro Self Monitor, PO #M52949 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson
Chemist

keh
Enclosures
FAX: 382-7335
ACU0423R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044

April 23, 1996

**INVOICE # 96ACU0423-1
DUPLICATE COPY**

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M52949: Results of testing requested by
Gerald Thompson, Project Manager for material submitted on April 18, 1996.

1 process water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due

\$ 65.00